

ABSTRACT OF THE DISCLOSURE

A flat panel display with a plurality of pixels. Each pixel has at least a first transistor and a second transistor and a semiconductor layer of the first transistor has a mobility which is different from a semiconductor layer of the second transistor.

5 A method for fabricating a flat panel display including at least a first transistor and a second transistor by forming an amorphous silicon film on an insulating substrate and crystallizing the amorphous silicon film into a polysilicon film that is divided into at least a first region having a first mobility and a second region having a second mobility. The method further involves forming a semiconductor layer for the first transistor from the region with the first
10 mobility and the second transistor from the region with the second mobility by patterning the polysilicon film, where the first mobility is different from the second mobility.

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